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LIST OF PUBLICATIONS JANUARY 1 TO JUNE 30, 1933

Publications available for distribution at the Laboratory are marked with an asterisk (\*). Those not so marked are available as noted after the title.

Trade journals and magazines referred to, if not available in your local library, may be obtained from the list of publishers given on the last page.

The government bulletins listed may be purchased from the Superintendent of Documents, Government Printing Office, Washington, D. C., at the prices indicated (cash or money order).

CHEMISTRY OF WOOD

- \*Chemistry of wood in relation to present and possible use, by E. C. Sherrard (Mimeograph R984, June, 1933).
- \*Crystalline coloring compounds in redwood extract, by E. C. Sherrard and E. F. Kurth (in Journal of the American Chemical Society, April, 1933). Same. Mimeograph R987.
- \*Distribution of extractives in redwood: Its relation to durability, by E. C. Sherrard and E. F. Kurth (in Industrial & Engineering Chemistry, March, 1933). Same. Mimeograph R988.
- \*Distribution and nature of the extractives in longleaf and shortleaf pine, by E. F. Kurth (in Industrial & Engineering Chemistry, February, 1933). Same. Mimeograph R989.

- \*Effect of alkali treatment on the yield of lignin, by E. E. Harris (in Industrial & Engineering Chemistry, Analytical Edition, March 15, 1933). Same. Mimeograph R990.

## GLUE, PLYWOOD, AND COATINGS

- \*Coatings for minimizing changes in the moisture content of wood. Forest Products Laboratory Technical Note No. 181. Revised January, 1933.
- \*Durability of paint on longleaf and shortleaf pine, by F. L. Browne (in Southern Lumberman, Febr. 1, 1933).
- \*Effectiveness of paint primers and paints in retarding the absorption of moisture by wood, by F. L. Browne (Mimeograph R974, March, 1933).

## MECHANICAL PROPERTIES OF WOOD

- \*Wood-beam design method promises economies, by J. A. Newlin (in Engineering News-Record, May 11, 1933).

## PULP AND PAPER

- \*Comparison of four methods for the determination of lignin, by P. S. Billington, F. A. Simmonds, and P. K. Baird (in Paper Trade Journal, January 26, 1933). Same. (in TAPPI papers, 1933).
- \*Survey of the drying of paper and cellulosic papermaking materials, by F. A. Simmonds (in Paper Trade Journal, May 18, 1933). Same. (in TAPPI papers, 1933).
- \*White papers from southern pines, Part 3: Pulping longleaf pine for strong, easy-bleaching pulp, by M. W. Bray and C. E. Curran (in Paper Trade Journal, February 9, 1933).

- \*Proposed methods for the dirt count of pulp and paper, by F. A. Simmonds, P. S. Billington, and P. K. Baird (in TAPPI papers, 1933).

### SEASONING OF WOOD

- \*House framing lumber should be kiln dried, by L. V. Teesdale (in California Plasterer, June, 1933). Same. (in Southern Lumberman, July 1, 1933).
- \*Hygrometric instruments say when to lay wood floors over concrete subfloors, by M. E. Dunlap (in Instruments, February, 1933).

Specific gravity and related properties of softwood lumber, by E. C. Peck (U. S. Department of Agriculture Technical Bulletin No. 343, February, 1933. Price 5 cents).

### SHIPPING CONTAINERS

- Cutting shipping costs through container research, by C. A. Plaskett (in Fibre Containers, January, 1933).

### WOOD PRESERVATION

- Chemical treatments for wood, by G. M. Hunt (in Michigan Forester, 1933).

- \*Decay in buildings, by C. A. Richards (in American Wood-Preservers' Assn. Proceedings, 1933).

Effect of concentration on the toxicity of chemicals to living organisms, by Ernest Bateman (U. S. Department of Agriculture Technical Bulletin No. 346. March, 1933. Price 5 cents).

- \*Experiments with the Boulton process in the treatment of green southern pine poles, by J. D. MacLean (in American Wood Preservers' Assn. Proceedings, 1933). Same. (in Electrical World, April 22, 1933).

\*Experiments in fireproofing wood; 4th progress report, by T. R. Truax, C. A. Harrison, and R. H. Baechler (in American Wood-Preservers' Assn. Proceedings, 1933).

International termite exposure test; 4th progress report, by G. M. Hunt and T. E. Snyder (in American Wood-Preservers' Assn. Proceedings, 1933).

\*Making log cabins endure, by G. M. Hunt (in American Forests, June, 1933).  
Same. Mimeograph R982.

Treating farm structures saves money, by G. M. Hunt (U. S. Department of Agriculture 1933 Yearbook ).

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\*Effect of heating wet wood on its subsequent dimensions, by Arthur Koehler (in American Wood-Preservers' Assn. Proceedings, 1933).

Growing quality timber, by Arthur Koehler (in The Annual Cruise, 1933).

New hypothesis as to the cause of shakes and rift cracks in green timber, by Arthur Koehler (in Journal of Forestry, May, 1933).

Pruning forest trees, by B. H. Paul (in Journal of Forestry, May, 1933).

Pruning young forest trees, by B. H. Paul (U. S. Department of Agriculture 1933 Yearbook).

## WOOD UTILIZATION, LOGGING, AND MILLING

- \*Analysis of the grading of softwood yard lumber in the light of present information on defects and consuming requirements, by E. M. Davis (Mimeograph R971, March, 1933).

Another reason why small trees should not be cut, by R. D. Garver and R. H. Miller (in Journal of Forestry, May 1933).

- \*Effect of a resaw on the output of single band sawmills in southern hardwoods, by R. D. Garver and R. H. Miller (in American Lumberman, May 27, 1933). Same. (in Southern Lumberman, April 15, 1933).

- \*Costs of plain and quarter sawing southern white oak, by R. D. Garver and R. H. Miller (Mimeograph R986, June, 1933).

- \*How small southern pine mills can reduce their losses, by C. J. Telford (in Southern Lbrman., March 15, 1933). Same. Some figures on profitable improvements among small southern pine mills (Mimeograph R985).

- \*Longleaf pine: Costs and returns for logs and trees of different sizes, by R. D. Garver and R. H. Miller (Mimeograph R972, March, 1933).

- \*Lumber and log grades for southern hardwoods, by R. D. Garver and R. H. Miller (Mimeograph R980, June, 1933).

Portable band sawmill and selective logging in second-growth loblolly pine, by R. D. Garver (in Journal of Forestry, January, 1933).

## MISCELLANEOUS

- \*Forest Products Laboratory continuity for NBC radio program, Farm and Home Hour, May 18, 1933 (Mimeograph R983).

Forest Products Laboratory work reviewed, by T. J. Mosley  
(in Pacific Coast Building Officials Conference  
Bulletin, March, 1933).

\*A hundred definitions pertaining to wood and other  
forest products (Forest Products Laboratory Tech-  
nical Note No. 240, October, 1932).

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American Forests, 1727 K ST., NW., Washington, D. C.  
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Annual Cruise, Forest Club, Oregon State College,  
Corvallis, Ore.

California Plasterer, 504 Chamber of Commerce Bldg.,  
Los Angeles, Calif.

Electrical World, 330 W. 42nd St., New York City.

Engineering News-Record, 330 W. 42nd St., New York City.

Fiber Containers, 228 N. La Salle St., Chicago, Ill.

Furniture Manufacturer, 200 Division Ave., N., Grand  
Rapids, Mich.

Industrial & Engineering Chemistry, 706 Mills Bldg.,  
Washington, D. C.

Instruments, 3619 Forbes St., Pittsburgh, Pa.

Journal of the American Chemical Society, 12 Oxford St.,  
Cambridge, Mass.

Journal of Forestry, 839 17th St., NW., Washington, D. C.

Michigan Forester, The Forestry Club, University of  
Michigan, Ann Arbor, Mich.

Pacific Coast Building Officials Conference Bulletin,  
124 W. 4th St., Los Angeles, Calif.

Paper Trade Journal, 15 W. 47th St., New York City.

Southern Lumberman, Presbyterian Bldg., Nashville,  
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TAPPI Papers, Technical Association of the Pulp and  
Paper Industry, 370 Lexington Ave., New York City.

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LIST OF PUBLICATIONS JULY 1 TO DECEMBER 31, 1933

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CHEMISTRY OF WOOD

Dehydroperillic acid, an acid from western red cedar, *Thuja plicata* Don, by A. B. Anderson and E. C. Sherrard (in Jour. Amer. Chem. Soc., Sept. 5, 1933).

The effect of concentration on the toxicity of chemicals to living organisms, by Ernest Bateman (U. S. Dept. of Agriculture Tech. Bul. 346, Mar. 1933. Price 5¢).

Holocellulose: Total carbohydrate fraction of extractive-free maple wood, by G. J. Ritter and E. F. Kurth (in Ind. & Eng. Chem., Nov. 1933).

Some factors that influence the conversion of cellulosic materials to sugar, by G. J. Ritter, R. L. Mitchell, and R. M. Seborg (in Jour. Amer. Chem. Soc., July 1933).

## GLUE, PLYWOOD, AND COATINGS

- \*Degree of protection afforded wood against moisture by paint coatings, by F. L. Browne (in Paint, Oil & Chem. Review, Sept. 7, 1933).
- \*Effect of aluminum priming paint on the durability of house paints on wood, by F. L. Browne. Mimeograph R1015, Oct. 1933.
- \*Priming-coat reductions for painting new wood surfaces, by F. L. Browne (in Oil, Paint & Drug Reporter, Nov. 16, 1933).  
Same (in Paint, Oil & Chem. Review, Nov. 2, 1933).  
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- \*Testing house paints for durability, by F. L. Browne (in Jour. Chem. Education, Sept. 1933).  
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## MECHANICAL PROPERTIES OF WOOD

Bending of wood, by T. R. C. Wilson (in Wood Products, Oct., Nov., and Dec., 1933).

## PULP AND PAPER

- \*Analysis of alkaline black liquors of varying sulphidity by the ammonia distillation method, by M. A. Heath, M. W. Bray, and C. E. Curran (in Paper Trade Jour., Nov. 16, 1933).
- Application of elementary statistical methods in the testing of pulp and paper, by F. A. Simmonds and R. H. Doughty (in Paper Trade Jour., Dec. 21, 1933).
- \*Chemical properties of screen fractions of black gum and slash pine groundwood pulps, by E. R. Schafer and Matti Santaholma (in Paper Trade Jour., Nov. 9, 1933).

- \*Capillary rise of water in fibrous sheets and possible applications, by F. A. Simmonds (in Paper Trade Jour., Sept. 7, 1933).
- \*Chemistry of alkaline wood pulp processes - 4 - Is there a critical pulping temperature for the sulphate process? by J. S. Martin, M. W. Bray, and C. E. Curran (in Paper Trade Jour., Nov. 16, 1933).
- \*Comparison of sheet machines for pulp evaluation, by R. H. Doughty and C. E. Curran (in Paper Trade Jour., Dec. 21, 1933).
- \*Effect of different-sized fibers on the physical properties of groundwood pulp, by E. R. Schafer and Matti Santaholma (in Paper Trade Jour., Nov. 9, 1933).
- \*Effect of relative humidity on the moisture content and bursting strength of four container boards, by C. O. Seborg, R. H. Doughty, and P. K. Baird (in Paper Trade Jour., Oct. 12, 1933).
- \*Forest Products Laboratory research on paper machine variables, by W. A. Chilson and P. K. Baird (in Paper Trade Jour., Oct. 5, 1933).  
Same (in Pulp & Paper Mag. of Canada, Nov., 1933)
- \*Influence of chemical concentration in the alkaline pulping process, by M. W. Bray and C. E. Curran (in Paper Trade Jour., Aug. 3, 1933).
- \*Serviceability and processing effects of oval cast iron and circular steel rods in a rod mill, by C. E. Hrubesky, P. S. Billington, and P. K. Baird (in Paper Trade Jour., Oct. 19, 1933).
- \*Significant sheet properties for developing specifications for various papers and paperboards, by P. K. Baird. Mimeograph R1016, Nov., 1933.

- \*Influence of stock temperature and hydrogen-ion concentration on a kraft paper sized with a special starch, by W. A. Chilson, F. A. Simmonds, P. K. Baird, and C. E. Curran (in Paper Trade Jour., Oct. 5, 1933).
- \*Some factors affecting interweb adherence of single plies used in laminated sheets, by R. H. Doughty and P. K. Baird (in Paper Trade Jour., Sept. 7, 1933).

## SEASONING OF WOOD

- \*How plastering affects the moisture content of structural and finish woodwork, by L. V. Teesdale (in Mississippi Valley Lbrman., Oct. 20, 1933).  
Same (in Wood Construction, Nov. 1933).  
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- \*Kiln drying green oak for beer barrels, by W. K. Loughborough (in Wooden Barrel, Aug., 1933).  
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- \*Shrinkage table for softwood lumber, by E. C. Peck (in Barrel & Box & Packages, Sept. 1933).  
Same (in West Coast Lumberman, Sept. 1933).  
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Same Forest Products Laboratory Tech. Note 241, Oct. 1933.

## WOOD PRESERVATION

- Preservative treatment of wood, by G. M. Hunt (in Amer. Soc. of Mech. Engrs., Symposium on Wood Preservation, 1933).
- Wood preservatives, by G. M. Hunt (in Amer. Soc. of Mech. Engrs. Symposium on Wood Preservation, 1933)
- \*Service records of treated and untreated poles, by R. M. Wirka (in Electrical World, July 22, 1933)

## WOOD STRUCTURE

Biogenetics in the terpene series, by J. A. Hall (in Chemical Reviews, Dec. 1933).

## WOOD UTILIZATION, LOGGING AND MILLING

Selective logging in the shortleaf and loblolly pine forests of the Gulf States region, by R. D. Garver and R. H. Miller (U. S. Dept. of Agriculture Tech. Bul. 375, Aug. 1933. Price 5¢.)

\*Small sawmill improvement: Practical pointers to field agencies: a boilerless kiln for portable mills, by C. J. Telford, Mimeograph R899-9). July, 1933.

\*Small sawmill improvement: Practical pointers to field agencies: Layouts and sheds for small mills, by C. J. Telford, Mimeograph R899-10, Nov. 1933.

\*Texture of Southern hardwoods and locality of growth, by E. M. Davis (in South. Lbrman, Dec. 15, 1933).

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\*Forest Products Laboratory -- Forest products research (in Report of the Forester, 1933).  
Same Mimeograph R1007.

\*Subject index to technical notes, July 1933.

\*Wood fins on the new Forest Products Laboratory building, by L. V. Teesdale (in Ill. Soc. of Architects' Mo. Bul., Nov., 1933).

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